METHOD AND APPARATUS FOR AUTOMATICALLY PROCESSING ACQUIRED DATA AND CONTEXTUAL INFORMATION AND ASSOCIATING THE SAME WITH AVAILABLE MULTIMEDIA RESOURCES

A system and method for automatically associating acquired data and contextual information with available multimedia resources. The system includes a contextual multimedia association module which is installed on a server, a personal assistant device, and a contextual input device. The contextual multimedia association module is provided as a mechanism to improve access to transduce, enhance, search, and otherwise process various contextual data acquired from objects, and further to associate the acquired contextual data with available multimedia resources. Exemplary, non-exclusive contextual data include environmental and geospatial coordinates, time, temperature, location, speed, motion, acceleration, and other parameters. In use, the contextual multimedia association module accesses the Internet and downloads web documents to a metadata repository, where the downloaded web documents are stored and updated systematically. The user captures input data about an object or item of interest by means of the contextual input device, and transmits the captured data to the personal assistant device. The personal assistant device automatically digitizes and processes the input data, and further automatically formulates a query, creates or updates a digital user profile, and transmits the query to the contextual multimedia association module. The contextual

multimedia association applies the query to numerous data stores, optimizes the

search results, and then presents the optimized search results to the user.